

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY Hungary

REPORT

SUBJECT [redacted] Beloiannis
Telecommunication Equipment Plant,
Budapest

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[redacted] report on the Beloiannis Telecommunication
Equipment Plant in Budapest containing information on its departmental organiza-
tion, [redacted] the labor force, production, and exports to China, 25X1
Poland, Bulgaria and Rumania.

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BELOIANNIS HIRADASTECHNIKAI GYAR, BUDAPEST

(1949 - 1956)

1. General.

(a) Before appropriation by the communists in 1949 Beloiannis Hiradastechnikai Gyar (Beloiannis Telecommunication Factory) of BUDAPEST XI, Fehervari ut. 70, was a sister firm of Standard Electrical Company, LONDON.

(b) The factory came under the Department of Telecommunication of the Ministry of Heavy Industry. At the outbreak of the revolution in October 1956 it had a staff of about 800 engineers and technicians, and about 4200 workers, employed in the manufacture of telecommunication equipment for the home market and for export.

(c) There was a department on the third floor of the factory building, making radio transmitters and receivers for the Hungarian army. This factory within a factory came under the command of the Ministry of War Industry and was also staffed with a small number of Hungarian technical army experts. It was out of bounds to all other employees.

(d) In 1955 a factory known as 'Red Spark' in BUDAPEST (OBUDA), Florian Ter, making microwave measuring instruments and magnetophones in a former tobacco plant, was amalgamated with Beloiannis Hiradastechnikai Gyar.

2. Organization

For the structural lay-out of Beloiannis Hiradastechnikai Gyar see Appendix A.

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4.

Production(a) Carrier Equipment

(i) 12-channel HF carrier equipment, type Standard Electrical BSOG for use with overhead or underground cable. This equipment of which some 30-40 were made annually for export to China and Poland (overhead wire) and Bulgaria and Roumania (underground cable) has been made since 1942 - 43, and from 1948-49 was constantly improved [redacted]

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(ii) 3-channel VF carrier equipment, type Standard Electrical BBO 3.

Since 1948-49 about 50 were exported annually to China.

(iii) 3-channel HF carrier equipment, type Standard Electrical BSO 3.

Since 1948-49 about 150 were exported annually to China.

(iv) 24-channel HF Morse telegraph carrier equipment, open wire [redacted]

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The first equipment was to be finished for delivery to [redacted]

/Poland

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Poland in the last quarter of 1956, but the outbreak of the revolution upset the time schedule.

(v) Single channel VF carrier equipment, underground cable, requiring repeater stations and PUPIN boxes. This work began in 1949-50, equipment for one network only having been ordered by the Hungarian Postal Service, allegedly for civilian service, whereas it was, in fact, for use by the Hungarian army and AVH. By 1956 the work was not yet completed. Between repeater stations PUPIN boxes, of cast iron and weighing about 200 kilograms with loading coils, varying in number from 10 to 200, depending on type of cable (16, 20 or 24 pairs of wires) used, were sunk into the ground, at a distance of 2000 metres from each other. At repeater stations the Hungarian army and AVH had their own repeater equipment, separated from repeaters for civilian traffic. As few lines were available for public use there was always a delay of more than five hours on civilian trunk services.

For the lay-out of net work see Appendix B.

(r) Radio Equipment

(i) In the first quarter of 1956 a microwave radio transmitting station was built in co-operation with the Research Institute for Telecommunications (T.K.I.) and installed in the T.K.I. building in BUDAPEST, Aron Gabor ut. The equipment operated to MISKOLC with a repeater station at KEKES.

(ii) About two or three sets of radio transmitting equipment with an output of 150 kw upwards were made annually from about 1950, and were exported to the U.S.S.R. and China.

(iii) In 1954-55 about 10,000 home radios were built by the plant for the 'ORION' radio factory. They were marketed in Hungary and in other countries of the East bloc. Although sold under the name of 'ORION', purchasers soon discovered from the serial number that the sets made by Beloiannis Hiredasteknikai Gyer were the best. **SECRET** not knowing that certain parts such as

condensers and resistances had been imported by the Beloiannis
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(c) Telephone Equipment

(i) From about 1950 onwards about 150,000 telephone sets of the dialling type were made of which about 80% went for export to China.

(ii) In addition a large number of telephones (with coin system) for public booths were made as well as telephone exchanges of the Western Electric type Nos. 7A 2 and 3 DPBX for Hungarian Post Offices and for export to China

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(d) Radio Transmitters and Receivers for the Hungarian Army

Since 1948-49 the department, which was controlled by the Ministry of War Industry, produced for the Hungarian Army radio transmitters and receivers:

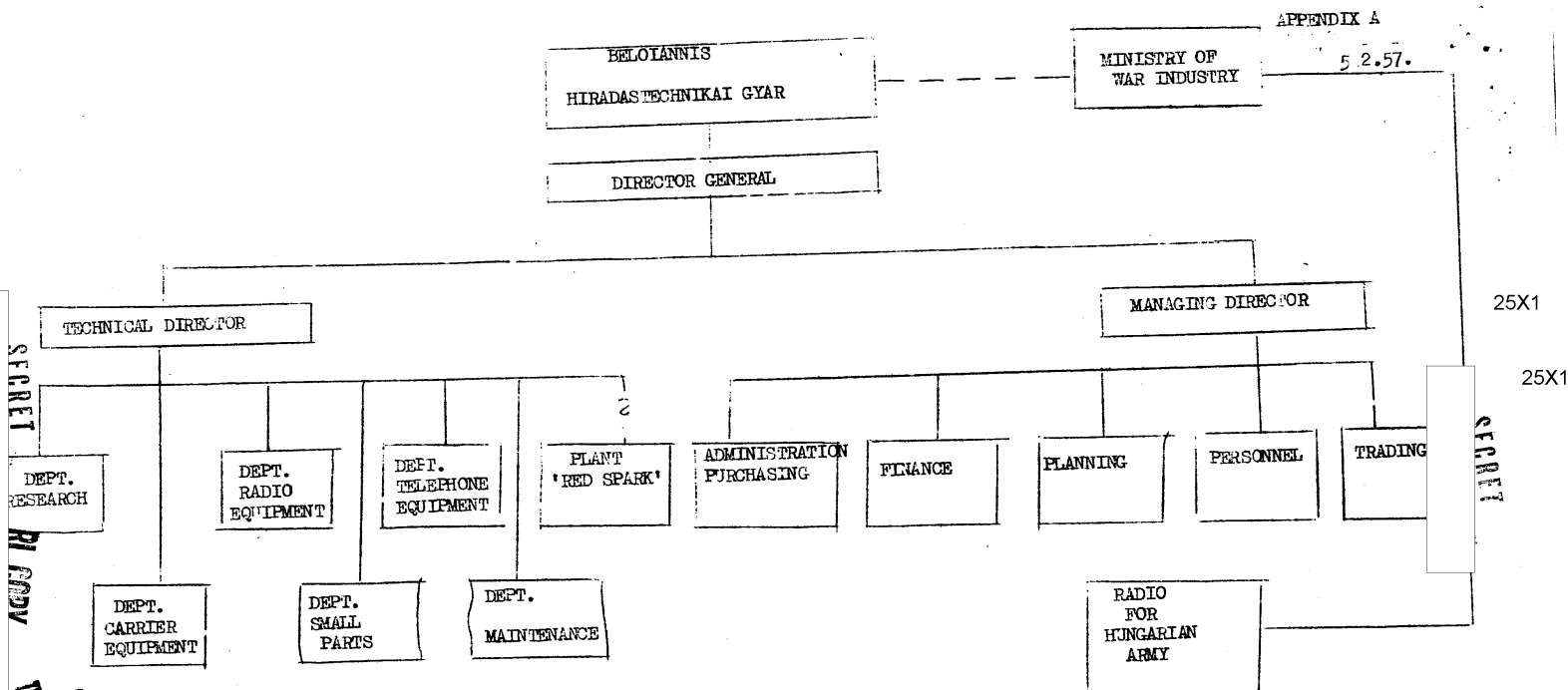
- (i) of 500 W and 1000 W output for installation in heavy trucks
- (ii) of 25-75 W and 7-25 W for installation in cars.

Although this programme had been running for years constant difficulties were encountered when it came to the installation of the sets. Frequently truck bodies had to be rebuilt and alterations in the cars had to be made.

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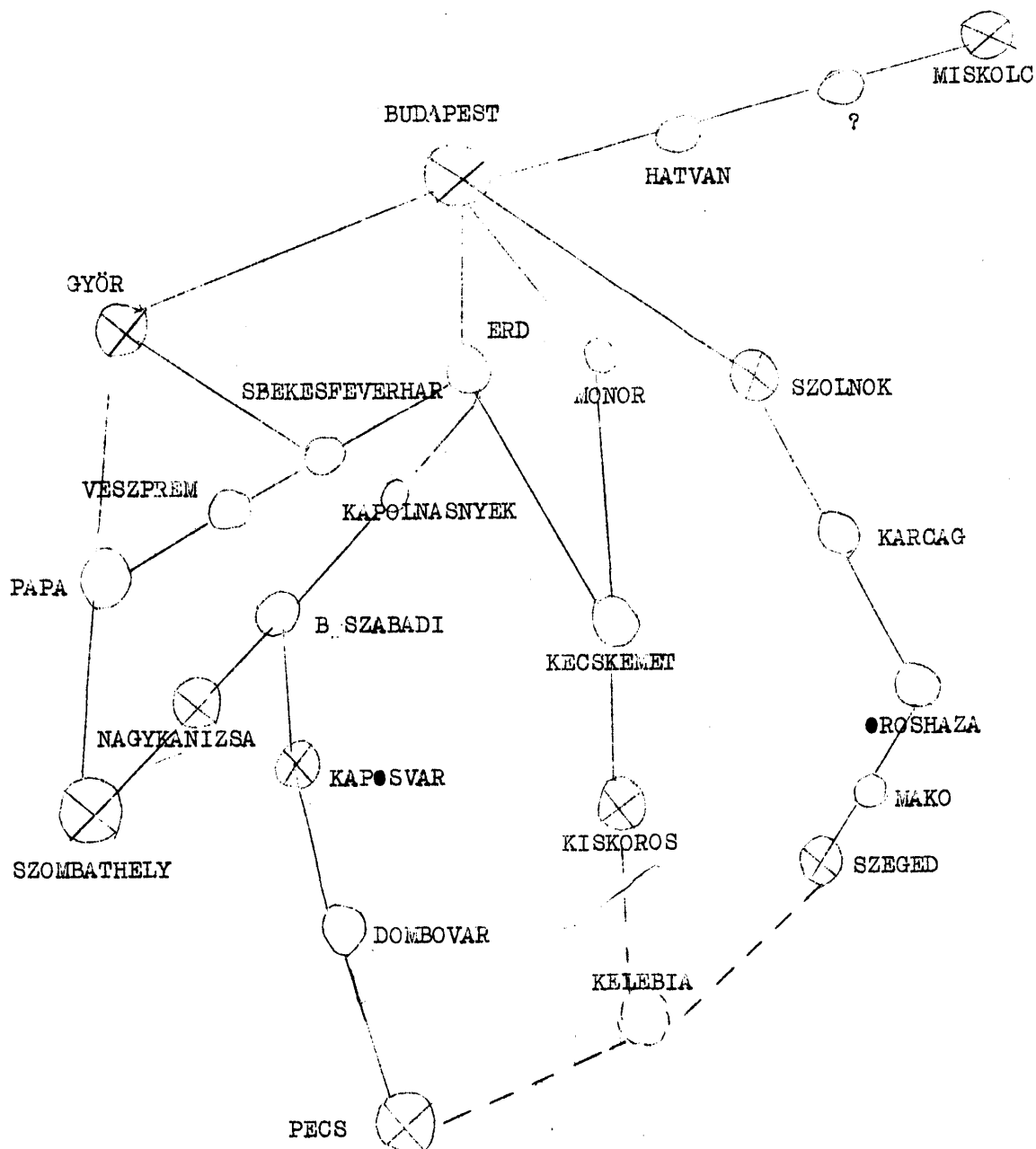
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Departments for Research, Radio Equipment, Telephone Equipment and carrier equipment had their own technical/constructional offices, research section and laboratory.

SECRETAPPENDIX B

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NETWORK OF 1 - CHANNEL VF CARRIER EQUIPMENT

LEGEND:



= TERMINALS



= REPEATER STATION



= NOT YET BUILT

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